

be performed. Two patients didn't become resectable and received only radiotherapy after induction. Pathological complete response (pCR) defined by absence of viable tumour cells was found in 7 resected patients and minimal residual disease defined by less than 10% of viable cells in three other patients. For the 17 patients with a follow up greater than 3 years, 3 years overall survival was 71% and 3 year disease free survival was 53%, which is at least comparable to largest surgical series. At the time of analysis, all patients with a significant pathological response (n = 10) were alive and disease free.

Conclusion: Induction chemotherapy with FEP regimen is highly active and well tolerated in adenocarcinoma of paranasal cancer. Pathological CR was frequent and strongly associated with long term remission. Prospective trial is warranted to confirm these results.

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POSTER

Esthesioneuroblastoma – Clinical Experience From a Regional Cancer Centre in North India

S. Mallick¹, A. Biswas¹, N. Joshi¹, S. Pandit¹, B.K. Mohanti¹, P.K. Julka¹, G.K. Rath¹. ¹All India Institute of Medical Sciences, Radiation Oncology, New Delhi, India

Background: This study is aimed to assess the clinical management and outcome in patients of esthesioneuroblastoma (ENB).

Methods and Materials: A retrospective review of medical records of patients of ENB (2009–10) was conducted. Primary endpoint of the study was overall survival. Statistical analysis was performed using Kaplan–Meier method (SPSS version 17).

Results: We identified 22 patients of ENB diagnosed at our centre from 2009–10. Altogether 4 patients were excluded due to attrition & 18 patients were evaluable. Median age at diagnosis was 29 years (Range 3–67 years). A male preponderance was noted (male:female = 2:1). Tumour stage was Kadish B in 7 & Kadish C in 11 patients. Cervical lymphadenopathy was noted in 4 patients at presentation. Common symptoms included epistaxis in 50%; nasal obstruction, proptosis & visual dimness in 27.77% each & nasal mass in 16.66% patients. 11/18 patients underwent surgery. Radiotherapy was used in all patients-16 with radical intent (median dose 60 Gy; range 45–70 Gy) & 2 with palliative intent (range 8–30 Gy/1–10 fractions). Radiation plan was 2 dimensional using telecobalt in 2 patients & 3 dimensional using megavoltage X-rays in 16 patients. Treatment volume encompassed the gross tumour with a safety margin of 1–2 cm. Neck was addressed in patients with involved nodes. Common field arrangement included 2 anterior oblique or anterolateral or superior & inferior vertex beams. Chemotherapy was used in the following setting: neoadjuvant in 10 patients (common regimens CAP-cyclophosphamide, adriamycin & cisplatin; EP-etoposide & cisplatin; VAC-vincristine, actinomycinD, cyclophosphamide), concurrent in 3 patients with weekly cisplatin & adjuvant in 5 patients with EP regimen. 7 patients had died at last follow-up with causes being local recurrence in 2, nodal recurrence in 2, distant dissemination in 3 (metastases in bone, brain & chest wall respectively), disease persistence in 1 & unknown in 1. After a median follow-up of 14.43 months, 2 year overall survival & progression-free survival were respectively 62% ± 13% & 49.7 ± 14%.

Conclusion: Management of esthesioneuroblastoma poses clinical challenge due to rarity, complex topography of disease, morbidity of extensive surgery and absence of well defined treatment protocols. Our institutional results are modest and clinical management has been quite heterogeneous. In future treatment guidelines need to be framed – surgery alone for Kadish A tumour, surgery with post-operative radiation in Kadish B tumour & multimodality management- surgery (craniofacial resection) followed by chemoradiation in Kadish C tumour. Neoadjuvant chemotherapy merits trial in Kadish C tumours which are upfront unresectable.

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POSTER

Adjuvant Chemoradiation in High-Risk Head and Neck Cancer

S. Torres¹, M. Ferreira¹, I. Sargento¹, J.O.A.O. Oliveira¹. ¹Instituto Portugues de Oncologia Francisco Gentil Lisboa, Medical Oncology, Lisboa, Portugal

Background: Adjuvant chemoradiation (adCRT) is the standard of care in resectable high-risk head and neck squamous cell carcinoma (HNSCC). It improves loco-regional control and disease-free survival compared to radiotherapy (RT) alone, but increases adverse effects. The aim of our study was to evaluate the efficacy and toxicity of adCRT in a clinical practice setting.

Methods: We performed a retrospective review that included all patients (pts) with resected HNSCC treated with adCRT, cisplatin-based, from 2007 to 2009 at our Institution. Response evaluation by clinical observation (direct and by fiberoptic endoscopy when applicable) and loco-regional computed tomography scan 3 months after completion of treatment,

disease status at last follow-up and acute and late toxicities were reviewed. Overall survival and disease free survival were estimated using Kaplan–Meier methodology.

Results: 94 pts included, 92.5% male, median age 54.5 years. Median follow-up: 16.3 months. The incidence of stage IV disease (77.6%) and major high risk pathological features such as involved surgical margins (43.6%) and extranodal spread of the disease (60.6%) was high. Compliance to treatment was good: 95.2% of pts completed RT treatment and 96.8% received at least 2 chemotherapy treatments. There was a high incidence of grade 2–3 skin (57.4%) and mucous-membrane (68.1%) acute adverse effects; 23.4% of pts lost more than 10% of initial body weight. Late toxicities (grade 2 or more xerostomy, neck fibrosis and osteoradionecrosis) were present in 40.42% of pts at least 3 months after treatment. No deaths occurred due to treatment. At last follow-up 75.5% of pts were alive; 71% in complete remission. Local or regional recurrence as the first site of treatment failure occurred in 12% of pts. The Kaplan–Meier estimates of 2-year disease free survival and overall survival were 65% and 80%, respectively.

Conclusions: Our data confirms the good outcome of pts treated with adCRT in a clinical practice setting. As we recorded a high incidence of adverse effects, a less toxic radiosensitizing regimen is desirable.

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POSTER

First Results of an Uncontrolled, Phase II Trial of Induction Chemotherapy With Cetuximab and Docetaxel-Cisplatin-5FU Followed by Cetuximab+Radiotherapy in the Responders in Locally Advanced Resectable Squamous Cell Cancer of the Head and Neck

E. Remenar¹, J. Lövey², P. Koltai¹, K. Horvath³, M. Gödeny³, M. Kasler¹.

¹National Institute of Oncology, Head and Neck Oncology, Budapest, Hungary; ²National Institute of Oncology, Radiotherapy, Budapest, Hungary; ³National Institute of Oncology, Diagnostic Radiology, Budapest, Hungary

Background: The objective of this study was to determine the efficacy and safety of adding cetuximab to the standard TPF induction chemotherapy (ICT), administered with the aim of selecting patients for organ preservation.

Materials and Methods: Eligible patients were those who had untreated, Stage III, IV, resectable cancers of the oral cavity (OC), oropharynx (OPH), hypopharynx (HPH), or larynx (L). They had to be enrolled until at least 25 patients completed cetuximab+radiotherapy per protocol.

Treatment: 2 cycles of 75–75 mg/m² docetaxel and cisplatin (d1, d22), 750 mg/m² 5-fluorouracil/day in continuous infusion (d1–5, d22–26), and cetuximab (400 mg/m² loading dose, then 250 mg/m² weekly). Complete (CR) or partial (PR) responders were treated with 70 Gy radiotherapy (RT) (2 Gy/day) with weekly 250 mg/m² cetuximab. Tumour assessment (CT/MRI) was performed before treatment, at the end of ICT, and three months after RT. Primary endpoint: rate of CRs 3 months after the end of RT.

Results: Ten OC (20%), 19 OPH (38%), 15 HPH (30%), 6 L (12%) patients were enrolled; 43/7 men/women, median age: 56 years. Response rate (RR) to ICT: PR: 33/50 (66%), stable disease (SD): 14/50 (28%), progressive disease (PD): 1/50 (2%), 1 OC and 1 HPH cancer patients (4%) were lost for measurement. Primary tumour sites of the ICT responders were: 1 OC, 16 OPH, 11 HPH, 5 L.

Twenty-seven of 33 ICT-responders were treated with RT+cetuximab per protocol. RR to RT: 21/27 (77.8%) CR, 5/27 (18.5%) PR, 1/27 (3.7%) PD. Grade 3,4 adverse events (AEs) during ICT were neutropenia 15 cases + 5 febrile neutropenias, 8 cases of low ion levels, 5 liver enzyme elevations, 2 hypersensitivity reactions to cetuximab, and one sudden death of uncertain cause. Grade 3,4 AEs during RT were 7/27 mucositis, 4/27 skin reactions, 1 patient died of pneumonia and hepatic insufficiency during RT. Three of 27 patients were feeding tube- and 2 of them also tracheostomy-dependent after the end of RT.

Conclusions: High RR to ICT in all but OC cancers was observed. Most of the ICT responders had CR after RT. Gr 3,4 AEs were common, but manageable, in patients with good general condition.

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POSTER

Voice Quality in Patients Treated With Surgery or Radiotherapy for Early Glottic Cancer – a Comparative Study

L. Cerezo¹, M. López¹, M. Martín¹, J. García², Y. Ibañez¹, A. Hinojar².

¹Hospital de la Princesa, Radiation Oncology, Madrid, Spain; ²Hospital de la Princesa, Otolaryngology, Madrid, Spain

Background: To retrospectively analyze the differences in voice quality by means of Voice Handicap Index (VHI-10) in patients with early glottic cancer treated with surgery or radiotherapy for early glottic cancer.